

Markets for Clean Air: Cap and Trade Simulation

What is it?

EPA's Markets for Cleaner Air Cap and Trade Simulation is a free tool that can help you explore how cap-and-trade programs work. Participants, working alone or in groups, control a power company and must develop a compliance strategy to comply with a cap and trade program for either SO_2 or CO_2 . Participants may install control technologies, invest in alternative energy sources, buy or sell allowances, and many other options.

How is it used?

The simulation is a computer-based exercise that allows a group of participants to quickly put the theories of cap-and-trade programs into practice. Participants can learn about cap-and-trade in an engaging hands-on manner using a simulation that is based on real-world data and EPA's more than 20 years of experience with cap-and-trade programs. As facilitator, you can use the simulation as a stand-alone tool or as part of a larger course or seminar that deals with cap-and-trade policies.

The participants use the software to manage their power company and implement compliance strategies to meet the overall emission cap. They can adjust their strategy as necessary to take advantage of new information and market conditions. The facilitator can customize some game play options and settings to accommodate course or workshop needs.

Features

- Easy-to-use graphical interface.
- Beginner and Advanced versions allow for a wide range of audiences.
- Detailed documentation clearly explains how to use the simulations for participants and facilitators.
- Different power companies have access to different resources (coal, wind, sun) requiring participants to come up with different strategies that will work for their specific company profile.
- Advanced version includes simulated events such as the opening of a new factory or a temporary increase in steel prices that can impact long-term compliance strategies as well as immediate compliance decisions.
- Companion Registry Application allows the facilitator to track trades and participant scores.

How to get more information

The tool has been used successfully by university professors, conference organizers, and government environment departments to educate people about the basics of cap and trade. If you are interested in learning more, please contact

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